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Form PTO-1449	Docket Number 549062000100	Application Number 10/722,849
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant .	Jing MA
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U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
/BD/	1.	12/01/1999	09/451,353	Ma			
1	2.	08/01/2002	2002/0102278	Guo			
	3.	07/28/1987	4,683,195	Mullis et al.			
	4.	07/28/1987	4,683,202	Mullis			
	5.	03/22/1988	4,732,864	Tolman			
	6.	06/28/1988	4,754,065	Levenson et al.			
	7.	01/24/1989	4,800,159	Mullis et al.			1
	8.	03/28/1989	4,816,567	Cabilly et al.	·		
	9.	12/04/1990	4,975,278	Senter et al.			
	10.	09/03/1996	5,552,391	Coutts et al.			
	11.	10/15/1996	5,565,332	Hoogenboom et al.			
	12.	12/03/1996	5,580,717	Dower et al.			
	13.	03/31/1998	5,733,743	Johnson et al.			
	14.	09/15/1998	5,807,715	Morrison et al.			
	15.	02/02/1999	5,866,692	Shitara et al.			
	16.	12/07/1999	5,997,867	Waldmann et al.			
	17.	04/25/2000	6,054,297	Carter et al.			
	18.	01/30/2001	6,180,377	Morgan et al.			
	19.	04/03/2001	6,210,671	Со			•
	20.	07/24/2001	6,265,150	Terstappen et al.			
	21.	12/18/2001	6,331,415	Cabilly et al.			
	22.	02/26/2002	6,350,861	Co et al			
V	23.	08/27/2002	6,441,163	Chari et al.			

FOREIGN PATENT DOCUMENTS

Examiner	Ref.	Date	Document No.	Country	Class	Subclass	Translation
EXAMIN	VER:	/Brad Duffy/		DATE CON	ISIDERED:	04/26/2007	

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/BD/	24.	12/23/1992	EP 519,596	Eur	ope					
	2 5.	04/30/1981	WO 81/01145	WI	PO					
	26.	10/06/1988	WO 88/07378	WD	PO					
1/	27.	04/01/1993	WO 93/06213	WI	PO .					
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Examiner Initials	Ref. No.	Title	4							
/BD/	29.		B. et al. (1997). "Sta ulins," J. Molec. Bio			the Canonio	cal Structures o	of		
	30.		. et al. (1987). "Tumo Antibody," Cancer R			ngineered N	Aurine/Human	Chimeri	С	
	31.	Chothia, C. e 342(6252):87	et al. (1989). "Confor 77-883.	mati	ons of Immunoglobu	lin Hyperv	ariable Region	s," Natur	e	
	32.	Clackson, T. 352(6336):62	et al. (1991)."Makin 24-628.	g An	tibody Fragments U	sing Phage	Display Librar	ies," Nat	ure	
	33.		(2003). "Monoclona Related Apoptosis," (th and Inc	luce	
	34.	Rapid Expres	B.L. et al. (1991). "Possion of a Murine Montegrins," Nucl. Acid	nocl	lonal Antibody Direc					
	35.		D. et al. (1978). "A Mence and Structure. T							
	36.		D. et al. (1993). "Hur E <i>MBO J</i> . 12(2):725-7		Anti-Self Antibodies	with High	Specificity Fro	m Phage	Display	
	37.		D. et al. (1994). "Isol pertoires," <i>EMBO J</i> .			ıman Antib	odies Directly	From La	rge	
	38.		. (1994). "Inhibition Antibody," Cancer R			owth and M	etastasis In Vi	vo by An	ti-CD44	
	39.		G. et al. (2001). "Rec h <i>Candida Albicans</i> S						ts	
V	40.	Hein, J. (199 183:626-644	0). "Unified Approac	ch to	Alignment and Phyl	ogenes," <i>N</i>	1ethods in Enz	ymology		
EXAMI	VER:	/Brad I	Duffy/		DATE CONSI	DERED:	04/26/2007			
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Form	n PTO-1	449		Docket Number 549062000100	Application Number 10/722,849
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		(Us	e several sheets if necessary)	Filing Date November 26, 2003	Group Art Unit: 1614
				Mailing Date April 12, 2004	
/BI	D/ 4	1.	Higgins, D.G. et al. (1989). "Fast and S CABIOS Communications 5(2):151-15		gnments on a Microcomputer,"
	4	2.	Hirt, B. (1967). "Selective Extraction of <i>Biol.</i> 26:365-369.	of Polyoma DNA from Infected	Mouse Cell Cultures," J. Mol.
·	. 4	3.	Hoogenboom, H. R. et al. (1992). "By- Repertoires of Germline V _H Gene Segn		
	4	4.	Irie, R.F. et al. (1986). "Regression of Human Monoclonal Antibody to Gang	Cutaneous Metastatic Melanom lioside GD2," <i>PNAS USA</i> 83(2)	a by Intralesional Injection with 2):8694-8698.
	4	5.	Johnson, K. D. et al. (1993). "Human A 3(4):564-571.	Antibody Engineering," Current	Opinion in Structural Biology
	4	6.	Jones, P.T. et al. (1986). "Replacing the with Those From a Mouse," Nature 32		egions In A Human Antibody
	4	7.	Karlsson, et al. (1991). "Kinetic Analys Based Analytical System," J. Immunol.		ractions With A New Biosensor
	4	8.	Kindblom, L-G. et al. (1984). "S-100 P Immunol. Scand 92:219-230.	Protein in Melanocytic Tumors,'	Acta. Pathol. Microbial
	4	9.	Köhler, G. et al. (1975). "Continuous C Specificity," <i>Nature</i> 256:495-497.	Cultures on Fused Cells Secretin	g Antibody of Predefined
	5	0.	Lobuglio, A.F. et al. (1989). "Mouse/H Immune Response," PNAS USA 86:422		ntibody in Man: Kinetics and
	5	1.	Mahato, E.I. et al. (1997). "Cationic Li Perspectives," Pharm. Res. 14(7):853-8		ms: Pharmaceutical
1	5	2.	Marken, J.S. et al. (1992). "Cloning and USA 89:3503-3507.	d Expression of the Tumor-Asse	ociated Antigen L6," PNAS
	5	3.	Marks, J.D. et al. (1991). "By-Passing Displayed on Phage," J. Mol. Biol. 222	Immunization Human Antibodi 2(3):581-597.	es From V-Gene Libraries
	5	4.	Marks, J.D. et al. (1992). "By-Passing Chain Shuffling," <i>BioTechnol</i> . 10(7):		ffinity Human Antibodies by
	5	5.	McCafferty, J. et al. (1990). "Phage Ar Domains," <i>Nature</i> 348(6301):552-554.		splaying Antibody Variable
	5	6.	Myers, E.W. et al. (1988). "Optimal Al	lignments in Linear Space," CA	BIOS 4(1):11-17.
	5	7.	Nakajima, T. et al. (1982). "Immunohis Melanoma and Pigmented Nevus, and	stochemical Demonstration of S its Diagnostic Application," Ca	100 Protein in Malignant incer 50:912-918.
1	5	8.	Nissim, A. et al. (1994). "Antibody Fra Immunochemical Reagents," EMBO J		e Display Library As
Е	XAMINE	R:	/Brad Duffy/	DATE CONSIDERED:	04/26/2007
			I if citation considered, whether or not the citation to considered. Include a copy of this form with no		ine through the citation if not in

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	IN	AN APPLICATION	Jing	g MA			
	(U	Ise several sheets if necessary)	Filing Date November 26, 2003	Group Art Unit: 1614			
			Mailing Date April 12, 2004				
/BD/	59.	Ordóńez, N.G. et al. (1988). "Compari Immunohistochemical Diagnosis of M					
	60.	Riechmann, L. et al. (1988). "Reshapir 327.	ng Human Antibodies For Thera	py," Nature 332(6162):323-			
	61.	Robinson, E.D. (1971). "Comparison of 11:105-119.	of Labeled Trees With Valency	Three," J. Comb. Theor.			
	62.	Saitou, N. et al. (1987). "The Neighbor Phylogenetic Trees," Mol. Biol. Evol.		od for Reconstructing			
	63.	Shaw, D.R. et al. (1987). "Characteriza 1A) to a Colon Cancer Tumor-Associ					
	64.	Smoller, B.R. et al. (1989). "HMB-45 53.	Recognizes Stimulated Melanoc	cytes," J. Cutan. Pathol. 16:49-			
	65.	Smoller, B.R. et al. (1989). "HMB-45 Progression Toward Melanoma," Am J		ipport for a Spectrum of			
	66.		Smoller, B.R. (1994). "Immunohistochemistry in the Diagnosis of Melanocytic Neoplasms," Pathology: State of the Art Reviews 2(2):371-383.				
-	67.	Verhoeyen, M. et al. (1988). "Reshapi Science 239(4835):1534-1536.	ng Human Antibodies: Grafting	An Antilysozyme Activity,"			
	68.	Waterhouse, P. et al (1993). "Combina Making Large Phage Antibody Repert					
	69.	Wick, M.R. et al. (1988). "Recognition An Immunohistochemical Study of 20 15(4):201-207.					
	70.	Wilber, W.J. et al. (1983). "Rapid Sin PNAS USA 80:726-730.	nilarity Searches of Nucleic Acid	d and Protein Data Banks,"			
	·71.	Winter, G. et al. (1991). "Man-Made A	Antibodies," <i>Nature</i> 349(6307):2	293-299.			
	72.	Winter, G. et al. (1994). "Making Ant 12:433-455.	tibodies By Phage Display Tech	nology," Annu. Rev. Immunol.			
V	73.	Yang, L-J. et al. (2002). "Preparation Antigens of Hepatoma Cells by Subtra	of Monoclonal Antibody Again active Immunization," World J.	st Apoptosis-Associated Gastroenterol. 8(5):808-814.			
EX	AMINER:	/Brad Duffy/	DATE CONSIDERED:	04/26/2007			
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				First Named Inventor	Jing Ma	
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	U.S. PATENT DOCUMENTS							
		U.S. Patent (Document		Date of Publication of	Pages, Columns, Lines, Where Relevant		
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/BD/	A1	5554512		Lyman et al.	09-10-1996			

					FC	REIGN PATENT DOCUMEN	rs		
Examiner Initials*	Cite No.1	Fore Office ³	eign Patent C Number ⁴	ocument Kind Co	ode ⁵	Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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		NON PATENT LITERATURE DOCUMENTS	
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/BD/	A2	Van Spriel et al., "Immunotherapeutic perspective for bispecific antibodies." Immunology Today, 21(8): 391-397, 2000.	
	A3	International Search Report for international application No. PCT/US2004/47766.	+
/BD/			

Examiner Signature	/Brad Duffy	1	Date Considered	04/26/2007

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				U.S. PATENT DOCUMENTS	3	
		U.S. Patent (Document	Name of Patentee or Applicant of Cited Document	Date of Publication of	Pages, Columns, Lines, Where Relevant
	Cite No.1	Number	Kind Code ² (If known)		Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
/RD/	B1	6,214,318		Benz et al.	04/2001	
· I	B2	RE 32,417		Burchiel et al.	05/1987	
	B3	4,036,945		Haber	07/1977	
	B4	4,311,688		Burchiel et al.	01/1982	
	B 5	4,472,371		Burchiel et al.	09/1984	
	B6	4,478,815		Burchiel et al.	10/1984	
	B7	4,478,818		Shell et al	10/1984	
	B8	5,223,409		Ladner et al.	06/1993	
	B9	5,317,091		Subramanian	05/1994	
	B10	5,475,096		Gold et al.	12/1995	
	B11	5,530,101		Queen et al.	06/1996	
	B12	5,595,877		Gold et al.	01/1997	
\sqrt{N}	B13	5,660,985		Pieken, et al.	08/1997	
Y	B14	5,693,762		Queen et al.	12/1997	

		U.S	. PATENT APPLICATION DOCUM	MENTS		
Cito	U.S. Patent Application Document		Name of Botonton on Applicant of	Filing Date of	Pages, Columns, Lines, Where Relevant	
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1001	B15	WO 97/47271	·	12/1997		
	B16	WO 98/04282		02/1998		
V	B17	WO 98/16238		04/1998		
	B18	WO 98/24884		06/1988		

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•				Examiner Name	Unknown		
Sheet	2	of	8	Attorney Docket Number	047630-0201		

		NON PATENT LITERATURE DOCUMENTS					
Examiner Initials* Cite No.1 /BD/ B19							
		Aamdal et al. "Immunomagnetic Detection of Melanoma Cells in bone Marrow and Blood" Melanoma Research 7 (Suppl. 1):S35 (1997)					
	B20	Adema et al. "Molecular Characterization of the Melanocyte Lineage-Specific Antigen gp100" J boil. Chem. 269:20126-20133 (1994)					
	B21	Argenyi et al. "S100 Protein-negative Malignant melanoma: Fact or Fiction? A light-Microscopic and Immuno-Histochemical Study" Am. J. Dermatopathol. 16:233-240 (1994)					
	B22	Brooks et al. J. "Subtractive Immunization Yields Monoclonal Antibodies that specifically Inhibit Metastasis" Cell Biol. 122(6):1351-1359 (1993)					
	B23	Chen et al. "A Melanoma Associated Fibronectin Variant Characterized by Monoclonal Antibody SM5-1" Journal of Molecular Medicine 76: page B11 (1998)					
	B24	Cochran et al. "Detection of S100 Protein as an Aid to the Identification of Melanocytic Tumors" Int. J. Cancer 30: 295-297 (1982)					
	B25	Cohen et al. "Production and Characterisation of an Antimelanoma Monoclonal Antibody KBA.62 Using a New Melanoma Cell Line Reactive on paraffin Wax Embedded Sections" J.Clin. Pathol. 48:826-831 (1995)					
	B26	Colombari et al. "Distribution of Melanoma Specific Antibody (Hmb-45) in Benign and Malignant Melanocytic Tumors" Virchows Archiv. A Pathol Anat. 413:17-24 (1988)					
	B27	Drier et al. "S100 Protein Immunoreactivity in Poorly Differentiated Carcinomas. Immuno-Histochemical Comparison with Malignant Melanoma" Arch. Pathol. Lab. Med. 111:447-452 (1987)					
	B28	Emery and Harris. "Strategies for Humanizing Antibodies" Chapter 6 In Antibody Engineering 2 nd Ed. Pp. 159-183 (1995)					
,	B2 9	Esclamado et al. "Unique Proteins Defined by Monoclonal Antibodies Specific for Human Melanoma. Some Potential Clinical Applications" Am. J. Surg. 152:376-385 (1986)					
V	B30	Frye et al. "Detection of Amplified Oncogenes by Differential Polymerase Chain Reaction" Oncogene 4:1153-1157 (1987)					

Examiner Signature	/Brad Duffy/	Date Considered	04/26/2007

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

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		NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number publisher, city and/or country where published.					
/8D/	B31	Gatter et al. "An Immunocytochemical Study of Malignant melanoma and its Differential Diagnosis from Other Malignant Tumors" J. Clin. Pathol. 38:1353-1357 (1985)				
1	B32	Giorno. "A Comparison of Two Immunoperoxidase Staining Methods Based on the Avidin-Biotin Interaction" Diag. Immunol. 2:161-166 (1984)				
	B33	Gown et al. "Monoclonal Antibodies Specific for Melanocytic Tumors Distinguished Subpopulations of Melanocytes" Am. J. Pathol. 123:195-203 (1986)				
	·B34	Guo et al. "Inhibition of Human melanoma Growth and Metastasis In Vivo by Anti-CD44 Monoclonal Antibody" Cancer Res. 54:1561-1565 (1994)				
	B35	Hachisuka et al. "Immuno-Histochemical Study of S100 Protein and Neuron Specific Enolase (NSE) in Melanocytes and the Related Tumors" Acta Histochem. 80:215-223 (1986)				
	B36	Hannum et al. "Ligand for FLT/3/FLK2 receptor tyrosine kinase regulates growth of haematopoietic stem cells and is encoded by variant RNAs" Letters to Nature 368: 643-648 (1994)				
	B37	Harlow and Lane. Chapter 12 In Antibodies-A Laboratory Manual cold Spring Harbor Laboratory pp. 471-510 (1988)				

Examiner		Date	
Signature	/Brad Duffy/	Considered	. 04/26/2007

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		NON PATENT LITERATURE DOCUMENTS		
Examiner nitials*	"I" I "" I I'OM (book magazino inumo) coriol cumpocium ectoles eta leleta mese/al cultura in-			
/BD/	B38	Harlow and Lane. Chapter 14 In Antibodies-A Laboratory Manual cold Spring Harbor Laboratory pp. 553-612 (1988)		
	B39	Harlow and Lane. "Immunoaffinity Purification" Chapter 13 In Antibodies-A Laboratory Manual Cold Spring Harbor Laboratory pp. 511-552 (1988)		
	B40	Herrera and Hancock. *Specificity of Antibody HMB-45" Arch. Pathol. La. Med. 116:900-901 (1992)		
	B41	Hung et al. "Enhancement of DNA Vaccine Potency by Linkage of Antigen Gene to a Gene Encoding the Extracellular Domain of Fms-like Tyrosine Kinase 3-Ligand Cancer Research 61: 1080-1088 (2001)		
	B42	International Search Report for PCT Application No. PCT/US2004/040879		
	B.43	Köhler et al. "Derivation of Specific Antibody Producing Tissue Culture and Tumor Lines by Cell Fusion" Eur. J. Immunol. 6:511-519 (1976)		
	B44	Mackie et al. "Use of NK1 C3 Monoclonal Antibody in the Assessment of Benign and Malignant Melanocytic Lesions" J. Clin. Pathol. 37:367-372 (1984)	\vdash	
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,	INFORMAT	ION DISCLO	SURE	Application Number	10/722,849	
•	STATEMEN	IT BY APPLI	CANT	Filing Date	11/26/2003	
	Data Submi	Hadi Andi 27	2006	First Named Inventor	MA	
	Date Submi	tted: April 27	, 2000	Group Art Unit	1614	
•	(use as many sheets as necessary)			Examiner Name	Unknown	
Sheet	5	of	8	Attorney Docket Number	047630-0201	-/

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Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	7
/BD/	B45	McCarthy et al. "Localization and Chemical Synthesis of Fibronectin Peptides with Melanoma Adhesion and Heparin Binding Activities" Blochemistry 27:1380-1388 (1988).	
1	B4 6	Mottolese et al. "Immunocytochemical diagnosis of Amelanotic Metastatic Melanoma Using Monoclonal Antibodies HMB-45 and Epl-3" Melanoma Res. 4:53-58 (1994)	
	B47	Palazo and Duray. "Typical, Dysplastic, Congenital, and Spitz nevi: A Comparative Immuno-Histochemical Study" Hum. Pathol. 20:341-346 (1989)	
	B48	Reinke et al. "Differential Expression of MART-1, Tyrosinase, and SM5-1 in Primary and Metastatic Melanoma" Am. J. Dermatopathol. 27: 401-406 (2005)	
	B49	Rothman et al. "Structure and Expression of Germ Line Immunoglobulin Heavy-Chain ε Transcripts: Interleukin-4 Plus Lipopolysaccharide-Directed Switching to Cε" Molecular and Cellular Biology 10(4):1672-1679 (1990)	
	B50	Sekiguchi et al. Seikagaku, 1989,61, pp. 89-93 (abstract)	
\forall	B51	Serafini et al. "Technetium-99m Labeled Monoclonal Antibodies in the Detection of Metastatic Melanoma" Clinical Nuclear Medicine 14(8):580-587 (1989)	

Examiner Signature	/Brad Duffy/	Date Considered	04/26/2007

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/BD/	B52	Shi et al. "Antigen Retrieval in Formalin-Fixed, Paraffin-Embedded Tissues: An Enhancement Method for Immuno-Histochemcial Staining Based on Microwave Oven Heating of Tissue Sections" J. Histochem Cytochem. 39:741-748 (1991)		
1	B53	Smith et al. 'The Human Homologue of Rat NG2, a Chondroltin Sulfate Proteoglycan, Is Not Expressed on the Cell Surface of Normal Hematopoietic Cells But Is Expressed by Acute Myeloid Leukemia Blasts From Poor-Prognosis Patients with Abnormalities of Chromosome Band 11q23* The American Society of Hematology, Blood, 87(3):1123-1133 (1996)		
	B54	Springall et al. "The Value of S100 Immunostaining as a Diagnostic Tool in Human Malignant Melanomas. A Comparative Study Using S100 and Neuron-Specific Enclase Antibodies" Virchows Arch. Pathol. Anat. Histopathol. 400:331-343 (1983)		
	B55	Stefansson et al. "Distribution of S100 Protein Outside the Central Nervous System" Brain Res. 234:309-317 (1982)		
	B56	Stefansson et al. "S100 Protein in Human Chondrocytes" nature 295:63-64 (1982)	-	
	B57	Sun et al. "Antibody HMB-45 Identifies the Cells of Blue Nevi. An Immuno-Histochemical Study on Paraffin Sections" Am. J. Surg. Pathol. 14:748-751 (1990)		
1	B58	Swerdlow et al. "Risks of Second Primary malignancy in Patients with Cutaneous and Ocular Melanoma in Denmark, 1943-1989" Int. J. Cancer 61:773-779 (1995)		

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Sheet	7	of	8	Attorney Docket Number	047630-0201

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		Tabuchi et al. "A S100 Protein in Human Glial tumors. Qualitative and quantitative Studies" Aca Neurochir. Wien 65:239-251 (1982)	
	B60	Trefzer et al. "SM5-1: a new monoclonal antibody which is highly sensitive and specific for melanocytic lesions" Arch. Dermatol. Res. 292:583-589 (2000)	_
	B61	Trefzer et al. "SM5-1: A New Monoclonal Antibody Which is Highly Sensitive and Specific for Melanocytic Tumors" Journal of Dermatogological Science 16 (Suppl. 1):S110 (1998)	_
	B62	Trefzer et al. "The monoclonal antibody SM5-1 recognizes a fibronectin variant which is widely expressed in melanoma" BMC Cancer 6(8):1-12 (2006)	
•	B63	Vanstapel et al. "New Sites of Human S100 Immunoreactivity Detected with Monoclonal Antibodies" Am. J. Clin. Pathol. 85:160-168 (1986)	
	B64	Vennegoor et al. "Biochemical Characterization and Cellular Localization of a Formalin-Resistant Melanoma-Associated Antigen Reacting with Monoclonal Antibody NKI/C-3" Int. J. Cancer 35:287-295 (1985)	
	B65	Williams et al "Subtractive Immunization Techniques for the Production of Monoclonal Antibodies to Rare Antigens" Biotechniques 12:842-847 (1992)	

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Examiner Signature	/Brad Duffy/	Date Considered	04/26/2007

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/BD/	B66	Wilson et al. "Sulfation and Molecular Weight of Fibronectin Shed by Human Melanoma Cells" Biochem Biophys Research Commun. 101:1047-1051 (1981)	
	B67	Wu et al. "Induction of Potent TRAIL-Mediated Tumoricidal Activity by hFLEX/Furin/TRAIL Recombinant DNA Construct" Molecular Therapy 9 (5):674-681 (2004)	
\downarrow	B68	Wu et al. "Regression of Human Mammary Adenocarcinoma by Systemic Administration of a Recombinant Gene Encoding the hFlex-TRAIL Fusion Protein" Molecular Therapy 3:368-374 (2001)	

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